



Amelia

Sequence 1.ST25.txt  
SEQUENCE LISTING

<110> IBM Corporation  
<120> Unsupervised Building and Exploitation of Composite Descriptors  
<130> YOR920000435US1  
<140> US 09/712,638  
<141> 2000-11-14  
<160> 59  
<170> PatentIn version 3.2  
<210> SEQ ID NO 1  
<211> 60  
<212> PRT  
<213> Xenopus laevis  
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Met Ala Gly Gly Thr Leu Tyr Thr Tyr Pro Asp Asn Trp Arg Ala Tyr  
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Lys Pro Leu Ile Ala Ala Gln Tyr Ser Gly Phe Pro Ile Lys Val Ala  
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Ser Ser Ala Pro Glu Phe Gln Phe Gly Val Thr Asn Lys Thr Pro Glu  
35 40 45

Phe Leu Lys Lys Phe Pro Leu Gly Lys Val Pro Ala  
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Met Ala Xaa Xaa Thr Leu Tyr Val Ser Pro Xaa Xaa Xaa Xaa Xaa Xaa  
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Sequence 1.ST25.txt

Xaa Xaa Xaa Xaa Xaa Xaa His Leu Asp Asp Phe Arg Ser Leu Leu Ala  
20 25 30

Leu Val Ala Ala Glu Tyr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
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Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
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Phe Glu Gly Lys Asp Gly Phe Cys Leu Phe Glu Ser Ser Ala Ile Ala  
1 5 10 15

His Tyr Val Gly Asn Asp Glu Leu Arg Gly Thr Thr Arg Leu His Gln  
20 25 30

Ala Gln Val Ile Gln Trp Val Ser Phe Ser Asp Ser His Ile Val Pro  
35 40 45

Pro Ala Ser Ala Trp Val Phe Pro Thr Leu Gly Ile  
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1 5 10 15

Sequence 1.ST25.txt

Xaa Xaa Xaa Gly Asn Ala Lys Gln Xaa Xaa Xaa Xaa Xaa Xaa Gln  
20 25 30

Ser Gln Val Trp Gln Trp Leu Ser Phe Ala Asp Asn Glu Leu Thr Pro  
35 40 45

Val Ser Cys Ala Val Val Phe Pro Leu Met Gly Met  
50 55 60

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<400> 5

Met Gln Tyr Asn Lys Gln Ala Thr Glu Gln Ala Lys Glu Gly Ile Lys  
1 5 10 15

Thr Val Leu Gly Val Leu Asp Ser His Leu Gln Thr Arg Thr Phe Leu  
20 25 30

Val Gly Glu Arg Ile Thr Leu Ala Asp Ile Thr Val Thr Cys Ser Leu  
35 40 45

Leu Trp Leu Tyr Lys Gln Val Leu Glu Pro Ser Phe  
50 55 60

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Thr Gly Leu Asp Lys Lys Ile Gln Gln Asn Ser Arg Val Glu Leu Met  
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Arg Val Leu Lys Val Leu Asp Gln Ala Leu Glu Pro Arg Thr Phe Leu  
20 25 30

Val Gly Glu Ser Ile Thr Leu Ala Asp Met Ala Val Ala Met Ala Val  
35 40 45

Leu Leu Pro Phe Lys Tyr Val Leu Glu Pro Ser Asp  
50 55 60

<210> SEQ ID NO 7  
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Sequence 1.ST25.txt

<400> 7

Arg Gln Pro Phe Gly Asn Val Thr Arg Trp Phe Val Thr Cys Val Asn  
1 5 10 15

Gln Pro Glu Phe Arg Ala Val Leu Gly Glu Val Lys Leu Cys Asp Lys  
20 25 30

Met Ala Gln Phe Asp Ala Lys Lys Phe Ala Glu Met Gln Pro Lys Lys  
35 40 45

Glu Thr Pro Lys Lys Glu Lys Pro Ala Lys Glu Pro  
50 55 60

<210> SEQ ID NO 8

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<213> Fugu rubripes

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Arg Asn Val Leu Met Asn Val Thr Arg Trp Phe Thr Thr Cys Ile Asn  
1 5 10 15

Gln Pro Glu Phe Leu Lys Val Leu Gly Lys Ile Ser Leu Cys Glu Lys  
20 25 30

Met Val Pro Val Thr Ala Lys Thr Ser Thr Glu Glu Ala Ala Ala Val  
35 40 45

His Pro Asp Ala Ala Ala Leu Asn Gly Pro Pro  
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Ala Pro Glu Asp Asp Leu Asp Glu Ser Glu Lys Ala Leu Ala Ala Glu  
20 25 30

Sequence 1.ST25.txt

Pro Lys Ser Lys Asp Pro Tyr Ala His Leu Pro Xaa Lys Ser Ser Phe  
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Ile Met Asp Glu Phe Lys Arg Lys Tyr Ser Asn Glu  
 50 55 60

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 1 5 10 15

Glu Lys Phe Gln Gln Lys Lys Glu Met Glu Ala Lys Lys Lys Met Gln  
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Pro Val Ala Glu Lys Lys Ala Lys Pro Glu Lys Arg Glu Leu Gly Val  
 35 40 45

Ile Thr Tyr Asp Ile Pro Thr Pro Ser Gly Glu Lys  
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Asp Thr Leu Thr Val Ala Leu Pro Tyr Phe Trp Xaa Glu His Phe Asp  
 1 5 10 15

Lys Glu Gly Trp Ser Ile Trp Tyr Ala Glu Tyr Xaa Lys Phe Pro Glu  
 20 25 30

Glu Leu Thr Gln Ala Phe Met Ser Cys Asn Leu Ile Thr Gly Met Phe  
 Page 5

35

40

45

Gln Arg Xaa Leu Asp Lys Leu Arg Lys Thr Gly Phe  
 50 55 60

&lt;210&gt; SEQ ID NO 12

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Fugu rubripes

&lt;400&gt; 12

Lys Asp Val Val Ser Pro Leu Pro Asp Ser Tyr Ser Pro Gln Tyr Val  
 1 5 10 15

Glu Ala Ala Trp Tyr Pro Trp Trp Glu Lys Gln Gly Phe Phe Lys Pro  
 20 25 30

Glu Phe Gly Arg Lys Ser Ile Gly Glu Gln Asn Pro Arg Gly Ile Phe  
 35 40 45

Met Met Cys Ile Pro Pro Pro Asn Val Thr Gly Ser  
 50 55 60

&lt;210&gt; SEQ ID NO 13

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&lt;212&gt; PRT

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&lt;221&gt; misc\_feature

&lt;222&gt; (34)..(38)

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&lt;222&gt; (59)..(60)

&lt;223&gt; Xaa can be any naturally occurring amino acid

&lt;400&gt; 13

Ala Ser Val Ile Leu Phe Gly Thr Asn Asn Asn Ser Ser Ile Ser Gly  
 1 5 10 15

Val Trp Val Xaa Phe Arg Gly Gln Asp Leu Ala Phe Thr Leu Ser Glu  
 20 25 30

Asp Xaa Xaa Xaa Xaa Xaa Trp Gln Ile Asp Tyr Glu Ser Tyr Asn Trp  
 35 40 45

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Arg Lys Leu Asp Ser Gly Ser Glu Glu Cys Xaa Xaa  
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<400> 14

Leu His Leu Gly His Ala Leu Thr Asn Ala Ile Gln Asp Thr Leu Thr  
1 5 10 15

Arg Trp His Arg Met Arg Gly Glu Thr Thr Leu Trp Asn Pro Gly Cys  
20 25 30

Asp His Ala Gly Ile Ala Thr Gln Val Val Val Glu Lys Lys Leu Met  
35 40 45

Arg Glu Lys Gly Thr Ser Arg His Asp Leu Gly Arg  
50 55 60

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Lys Thr Leu Val Lys Glu Tyr Phe Ala Trp Glu Gly Glu Xaa Xaa Xaa  
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Xaa Xaa Xaa Xaa Xaa Phe Lys Asn Val Gly Lys Pro Phe Asn Gln Gly  
20 25 30

Xaa Lys Ile Phe Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
35 40 45

Sequence 1.ST25.txt

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
50 55 60

<210> SEQ ID NO 16  
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<212> PRT  
<213> Fugu rubripes

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Glu Lys Phe Ile Glu Glu Val Trp Lys Trp Lys Asn Glu Lys Gly Asp  
1 5 10 15

Arg Ile Tyr His Gln Leu Lys Lys Leu Gly Ser Ser Leu Asp Trp Asp  
20 25 30

Arg Ala Cys Phe Thr Met Asp Pro Lys Leu Ser Tyr Ala Val Gln Glu  
35 40 45

Ala Phe Ile Arg Met His Asp Glu Gly Val Ile Tyr  
50 55 60

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<223> Xaa can be any naturally occurring amino acid

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Xaa Val Leu Glu Leu Tyr Leu Asp Leu Leu Ser Gln Pro Cys Arg Ala  
1 5 10 15

Ile Tyr Ile Phe Ala Lys Lys Asn Asn Ile Pro Phe Gln Met His Thr  
20 25 30

Val Glu Leu Arg Lys Gly Glu His Leu Ser Asp Ala Phe Ala Arg Val  
35 40 45

Asn Pro Met Lys Lys Val Pro Ala Met Met Xaa Asp  
50 55 60

<210> SEQ ID NO 18



Sequence 1.ST25.txt

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 <223> Xaa can be any naturally occurring amino acid

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Xaa Val Leu Glu Leu Tyr Leu Asp Leu Leu Ser Gln Pro Cys Arg Ala  
 1 5 10 15

Ile Tyr Ile Phe Ala Lys Lys Asn Asn Ile Pro Phe Gln Met His Thr  
 20 25 30

Val Glu Leu Arg Lys Gly Glu His Leu Ser Asp Ala Phe Ala Gln Val  
 35 40 45

Asn Pro Met Lys Lys Val Pro Ala Met Lys Xaa Asp  
 50 55 60

<210> SEQ ID NO 19  
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 <212> PRT  
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<400> 19

Val Ala Gly Lys Leu Tyr Thr Tyr Pro Glu Asn Phe Arg Ala Phe Lys  
 1 5 10 15

Ala Leu Ile Ala Ala Gln Tyr Ser Gly Ala Lys Leu Glu Ile Ala Lys  
 20 25 30

Ser Phe Val Phe Gly Glu Thr Asn Lys Ser Asp Ala Phe Leu Lys Ser  
 35 40 45

Phe Pro Leu Gly Lys Val Pro Ala Phe Glu Ser Ala  
 50 55 60

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Sequence 1.ST25.txt

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Gly Gly Phe Thr Leu Cys Glu Ser Val Ala Ile Leu Leu Tyr Leu Ala  
 1 5 10 15

His Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Tyr Lys Val Pro Asp His  
 35 40 45

Trp Tyr Pro Gln Asp Leu Gln Ala Arg Ala Arg Val  
 50 55 60

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Gly Gly Phe Thr Leu Cys Glu Ser Val Ala Ile Leu Leu Tyr Leu Ala  
 1 5 10 15

His Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Tyr Lys Val Pro Asp His  
 35 40 45

Trp Tyr Pro Gln Asp Leu Gln Ala Arg Ala Arg Val  
 50 55 60

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 <212> PRT  
 <213> Artemia salina

<400> 22

Asp Gly His Cys Ile Ala Glu Ser Asn Ala Ile Ala Tyr Tyr Val Ala  
 1 5 10 15

Asn Glu Thr Leu Arg Gly Ser Ser Asp Leu Glu Lys Ala Gln Ile Ile  
 Page 10

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Sequence 1.ST25.txt  
25 30

Gln Trp Met Thr Phe Ala Asp Thr Glu Ile Leu Pro Ala Ser Cys Thr  
35 40 45

Trp Val Phe Pro Val Leu Gly Ile Met Gln Phe Asn  
50 55 60

&lt;210&gt; SEQ ID NO 23

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&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 23

Asp Glu Tyr Leu Ala Trp Gln His Thr Gly Leu Arg Arg Ser Cys Leu  
1 5 10 15

Arg Ala Leu Trp His Lys Val Met Phe Pro Val Phe Leu Gly Glu Gln  
20 25 30

Ile Pro Pro Glu Thr Leu Ala Ala Thr Leu Ala Glu Leu Asp Val Asn  
35 40 45

Leu Gln Val Leu Glu Asp Lys Phe Leu Gln Asp Lys  
50 55 60

&lt;210&gt; SEQ ID NO 24

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Rattus norvegicus

&lt;400&gt; 24

Asp Glu Tyr Leu Ala Trp Gln His Thr Thr Leu Arg Arg Ser Cys Leu  
1 5 10 15

Arg Thr Leu Trp His Lys Val Met Phe Pro Val Phe Leu Gly Glu Gln  
20 25 30

Ile Arg Pro Glu Met Leu Ala Ala Thr Leu Ala Asp Leu Asp Val Asn  
35 40 45

Val Gln Val Leu Glu Asp Gln Phe Leu Gln Asp Lys  
50 55 60

&lt;210&gt; SEQ ID NO 25

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Artemia salina

&lt;400&gt; 25

Sequence 1.ST25.txt

Lys Gln Ala Thr Ala Arg Ala Lys Glu Asp Ile Asp Lys Ala Leu Gln  
1 5 10 15

Ala Leu Asp Asp His Leu Leu Thr Arg Thr Tyr Leu Val Gly Glu Arg  
20 25 30

Ile Thr Leu Ala Asp Ile Val Val Thr Cys Thr Leu Leu His Leu Tyr  
35 40 45

Gln His Val Leu Asp Glu Ala Phe Arg Lys Ser Tyr  
50 55 60

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<213> Mus musculus

<400> 26

Asp Phe Leu Val Gly Pro His Ile Ser Leu Ala Asp Leu Val Ala Ile  
1 5 10 15

Thr Glu Leu Met His Pro Val Gly Gly Gly Cys Pro Val Phe Glu Gly  
20 25 30

His Pro Arg Leu Ala Ala Trp Tyr Gln Arg Val Glu Ala Ala Val Gly  
35 40 45

Lys Asp Leu Phe Arg Glu Ala His Glu Val Ile Leu  
50 55 60

<210> SEQ ID NO 27

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<212> PRT

<213> Rattus norvegicus

<400> 27

Asp Phe Leu Val Gly Pro His Ile Ser Leu Ala Asp Val Val Ala Ile  
1 5 10 15

Thr Glu Leu Met His Pro Val Gly Gly Gly Cys Pro Val Phe Glu Gly  
20 25 30

Arg Pro Arg Leu Ala Ala Trp Tyr Arg Arg Val Glu Ala Ala Val Gly  
35 40 45

Lys Asp Leu Phe Leu Glu Ala His Glu Val Ile Leu  
50 55 60

Sequence 1.ST25.txt

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<400> 28

Val Asn Thr Asn Arg Trp Phe Ile Thr Leu Ile Asn Gln Lys Gln Val  
 1 5 10 15

Lys Ala Val Ile Gly Asp Phe Lys Leu Cys Glu Lys Ala Gly Glu Phe  
 20 25 30

Asp Pro Xaa Xaa Xaa Lys Lys Tyr Ala Glu Phe Gln Ala Ala Ile Gly  
 35 40 45

Ser Gly Glu Lys Lys Lys Thr Glu Lys Ala Pro Lys  
 50 55 60

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Lys Val Lys Asp Cys Pro Pro Ala Asp Leu Ile Ile Lys Gln Lys Leu  
 1 5 10 15

Met Pro Arg Val Leu Thr Met Ile Gln Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 50 55 60

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Sequence 1.ST25.txt

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Lys Val Arg Asp Cys Pro Pro Ala Asp Pro Val Ile Lys Gln Lys Leu  
 1 5 10 15

Met Pro Arg Val Leu Thr Met Ile Gln Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 50 55 60

<210> SEQ ID NO 31  
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<400> 31

Ala Val Lys Ala Lys Pro Glu Lys Lys Glu Val Pro Lys Lys Glu Gln  
 1 5 10 15

Glu Glu Pro Ala Asp Ala Ala Glu Glu Ala Leu Ala Ala Glu Pro Lys  
 20 25 30

Ser Lys Asp Pro Phe Asp Glu Met Pro Lys Gly Thr Phe Asn Met Asp  
 35 40 45

Asp Phe Lys Arg Phe Tyr Ser Asn Asn Glu Glu Thr  
 50 55 60

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 1 5 10 15

Sequence 1.ST25.txt

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
50 55 60

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<213> Rattus norvegicus

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<223> xaa can be any naturally occurring amino acid

<400> 33

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
50 55 60

<210> SEQ ID NO 34  
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<212> PRT  
<213> Artemia salina

<400> 34

Lys Ser Ile Pro Tyr Phe Trp Glu Lys Phe Asp Lys Glu Asn Tyr Ser  
1 5 10 15

Ile Trp Tyr Ser Glu Tyr Lys Tyr Gln Asp Glu Leu Ala Lys Val Tyr  
20 25 30

Met Ser Cys Asn Leu Ile Thr Gly Met Phe Gln Arg Ile Glu Lys Met  
35 40 45

Arg Lys Gln Ala Phe Ala Ser Val Cys Val Phe Gly  
50 55 60

Sequence 1.ST25.txt

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Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 50 55 60

<210> SEQ ID NO 36  
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Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 35 40 45

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
 50 55 60

<210> SEQ ID NO 37  
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 <212> PRT



<213> Artemia salina

Sequence 1.ST25.txt

<400> 37

Glu Asp Asn Asp Ser Ser Ile Ser Gly Ile Trp Val Trp Arg Gly Gln  
1 5 10 15

Asp Leu Ala Phe Lys Leu Ser Pro Asp Trp Gln Ile Asp Tyr Glu Ser  
20 25 30

Tyr Asp Trp Lys Lys Leu Asp Pro Asp Ala Gln Glu Thr Lys Asp Leu  
35 40 45

Val Thr Gln Tyr Phe Thr Trp Thr Gly Thr Asp Lys  
50 55 60

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Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
1 5 10

<210> SEQ ID NO 39

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Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa  
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<213> Artemia salina

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Gln Gly Arg Lys Phe Asn Gln Gly Lys Ile Phe Lys  
1 5 10

Sequence 1.ST25.txt

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Xaa Xaa Xaa Xaa Asn Phe Asp Xaa Xaa Xaa Lys Lys Thr Val Glu Gln  
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Tyr Lys Xaa Xaa Asn Glu Leu Asn Gly Gln Leu Gln Val Leu Asp Arg  
 20 25 30

Val Leu Val Lys Lys Thr Tyr Leu Val Gly Glu Arg Leu Ser Leu Ala  
 35 40 45

Asp Val Ser Val Ala Leu Asp Leu Leu Pro Ala Phe  
 50 55 60

<210> SEQ ID NO 42  
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 <212> PRT  
 <213> Homo sapien

<400> 42

Met Glu His Thr Glu Ile Asp His Trp Leu Glu Phe Ser Ala Thr Lys  
 1 5 10 15

Leu Ser Ser Cys Asp Ser Phe Thr Ser Thr Ile Asn Glu Leu Asn His  
 20 25 30

Cys Leu Ser Leu Arg Thr Tyr Leu Val Gly Asn Ser Leu Ser Leu Ala  
 35 40 45

Asp Leu Cys Val Trp Ala Thr Leu Lys Gly Asn Ala  
 50 55 60

Sequence 1.ST25.txt

<210> SEQ ID NO 43  
 <211> 60  
 <212> PRT  
 <213> Caenorhabditis elegans

<220>  
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 <223> Xaa can be any naturally occurring amino acid

<220>  
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 <223> Xaa can be any naturally occurring amino acid

<400> 43

Gln Tyr Val Leu Asp Ala Asn Ala Arg Lys Ser Ile Val Asn Val Thr  
 1 5 10 15

Arg Trp Phe Arg Thr Val Val Asn Gln Pro Ala Val Lys Glu Val Xaa  
 20 25 30

Xaa Leu Gly Glu Val Ser Leu Ala Ser Ser Xaa Val Ala Xaa Gln Phe  
 35 40 45

Asn Gln Xaa Xaa Ala Lys Phe Thr Glu Leu Ser Xaa  
 50 55 60

<210> SEQ ID NO 44  
 <211> 60  
 <212> PRT  
 <213> Homo sapien

<400> 44

Ala Trp Gln Glu Gln Leu Lys Gln Lys Lys Ala Pro Val His Val Lys  
 1 5 10 15

Arg Trp Phe Gly Phe Leu Glu Ala Gln Gln Ala Phe Gln Ser Val Gly  
 20 25 30

Sequence 1.ST25.txt

Thr Lys Trp Asp Val Ser Thr Thr Lys Ala Arg Val Ala Pro Glu Lys  
 35 40 45

Lys Gln Asp Val Gly Lys Phe Val Glu Leu Pro Gly  
 50 55 60

<210> SEQ ID NO 45  
 <211> 60  
 <212> PRT  
 <213> Caenorhabditis elegans

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<220>  
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 <223> Xaa can be any naturally occurring amino acid

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 <223> Xaa can be any naturally occurring amino acid

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 <223> Xaa can be any naturally occurring amino acid

<220>  
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 <223> Xaa can be any naturally occurring amino acid

<400> 45

Xaa Xaa Xaa Ala Lys Val Ala Lys Ser Ala Pro Lys Ala Glu Lys Pro  
 1 5 10 15

Lys Lys Glu Ala Lys Pro Ala Ala Ala Xaa Xaa Ala Gln Pro Xaa  
 20 25 30

Xaa Xaa Xaa Xaa Glu Xaa Xaa Xaa Xaa Xaa Xaa Asp Asp Xaa Glu  
 35 40 45

Sequence 1.ST25.txt

Pro Lys Glu Glu Lys Ser Xaa Lys Asp Pro Xaa Xaa  
50 55 60

<210> SEQ ID NO 46

<211> 60

<212> PRT

<213> Homo sapien

<400> 46

Ala Glu Met Gly Lys Val Thr Val Arg Phe Pro Pro Glu Ala Ser Gly  
1 5 10 15

Tyr Leu His Ile Gly His Ala Lys Ala Ala Leu Leu Asn Gln His Tyr  
20 25 30

Gln Val Asn Phe Lys Gly Lys Leu Ile Met Arg Phe Asp Asp Thr Asn  
35 40 45

Pro Glu Lys Glu Lys Glu Asp Phe Glu Lys Val Ile  
50 55 60

<210> SEQ ID NO 47

<211> 60

<212> PRT

<213> Oryctolagus cuniculus

<400> 47

Met Ala Ala Gly Thr Leu Tyr Thr Tyr Pro Glu Asn Trp Arg Ala Phe  
1 5 10 15

Lys Ala Leu Ile Ala Ala Gln Tyr Ser Gly Ala Gln Val Arg Val Leu  
20 25 30

Ser Ala Pro Pro His Phe His Phe Gly Gln Thr Asn Arg Thr Pro Glu  
35 40 45

Phe Leu Arg Lys Phe Pro Ala Gly Lys Val Pro Ala  
50 55 60

<210> SEQ ID NO 48

<211> 60

<212> PRT

<213> Zea mays

<220>

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<222> (1)..(1)

<223> Xaa can be any naturally occurring amino acid

Sequence 1.ST25.txt

<220>  
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 <222> (43)..(43)  
 <223> Xaa can be any naturally occurring amino acid

<400> 48

Xaa Ala Thr Pro Ala Val Lys Val Tyr Gly Trp Ala Ile Ser Pro Phe  
 1 5 10 15

Val Ser Arg Ala Leu Leu Ala Leu Glu Glu Ala Gly Val Asp Tyr Glu  
 20 25 30

Leu Val Pro Met Ser Arg Gln Asp Gly Asp Xaa His Arg Arg Pro Glu  
 35 40 45

His Leu Ala Arg Asn Pro Phe Gly Lys Val Pro Val  
 50 55 60

<210> SEQ ID NO 49  
 <211> 60  
 <212> PRT  
 <213> Oryctolagus cuniculus

<220>  
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 <223> Xaa can be any naturally occurring amino acid

<220>  
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 <222> (57)..(60)  
 <223> Xaa can be any naturally occurring amino acid

<400> 49

Phe Glu Gly Asp Asp Gly Phe Cys Val Phe Glu Ser Asn Ala Ile Ala  
 1 5 10 15

Tyr Tyr Val Ser Xaa Xaa Xaa Xaa Asn Glu Glu Leu Arg Gly Ser Thr  
 20 25 30

Pro Glu Ala Ala Ala Gln Val Val Gln Trp Val Ser Phe Ala Asp Ser  
 35 40 45

Asp Ile Val Pro Pro Ala Ser Thr Xaa Xaa Xaa Xaa  
 50 55 60

<210> SEQ ID NO 50  
 <211> 60  
 <212> PRT  
 <213> Zea mays

Sequence 1.ST25.txt

<220>  
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<400> 50

Leu Glu Xaa Asp Gly Asp Leu Thr Leu Phe Glu Ser Arg Ala Ile Ala  
 1 5 10 15

Arg His Val Leu Arg Lys His Lys Pro Glu Leu Leu Gly Gly Gly Arg  
 20 25 30

Leu Glu Gln Thr Ala Met Val Asp Val Trp Leu Glu Val Glu Ala His  
 35 40 45

Gln Leu Ser Pro Pro Ala Ile Ala Ile Val Val Glu  
 50 55 60

<210> SEQ ID NO 51  
 <211> 60  
 <212> PRT  
 <213> Oryctolagus cuniculus

<400> 51

Trp Val Phe Pro Thr Leu Gly Ile Met His His Asn Lys Gln Ala Thr  
 1 5 10 15

Glu Asn Ala Lys Glu Glu Val Lys Arg Ile Leu Gly Leu Leu Asp Ala  
 20 25 30

His Leu Lys Thr Arg Thr Phe Leu Val Gly Glu Arg Val Thr Leu Ala  
 35 40 45

Asp Ile Thr Val Val Cys Thr Leu Leu Trp Leu Tyr  
 50 55 60

<210> SEQ ID NO 52  
 <211> 60  
 <212> PRT  
 <213> Zea mays

<220>  
 <221> misc\_feature  
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 <223> Xaa can be any naturally occurring amino acid

<400> 52

Cys Val Phe Ala Pro Phe Leu Gly Arg Glu Arg Asn Gln Ala Val Val  
 1 5 10 15

Sequence 1.ST25.txt

Asp Glu Asn Val Glu Lys Leu Lys Lys Val Leu Glu Val Tyr Glu Ala  
20 25 30

Arg Leu Ala Thr Cys Thr Tyr Leu Ala Gly Asp Phe Leu Ser Leu Ala  
35 40 45

Asp Leu Ser Pro Phe Xaa Thr Ile Met His Cys Leu  
50 55 60

<210> SEQ ID NO 53  
<211> 60  
<212> PRT  
<213> Oryctolagus cuniculus

<400> 53

Lys Gln Val Leu Glu Pro Ser Phe Arg Gln Ala Phe Pro Asn Thr Asn  
1 5 10 15

Arg Trp Phe Leu Thr Cys Ile Asn Gln Pro Gln Phe Arg Ala Val Leu  
20 25 30

Gly Glu Val Lys Leu Cys Glu Lys Met Ala Gln Phe Asp Ala Lys Lys  
35 40 45

Phe Ala Glu Ser Gln Pro Lys Lys Asp Thr Pro Arg  
50 55 60

<210> SEQ ID NO 54  
<211> 60  
<212> PRT  
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<220>  
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<223> Xaa can be any naturally occurring amino acid

<220>  
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<222> (45)..(46)  
<223> Xaa can be any naturally occurring amino acid

<220>  
<221> misc\_feature  
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<223> Xaa can be any naturally occurring amino acid

<400> 54



Sequence 1.ST25.txt

Met Ala Thr Glu Tyr Ala Ala Leu Val His Ala Leu Pro His Val Ser  
1 5 10 15

Ala Trp Trp Gln Gly Leu Ala Ala Arg Pro Xaa Xaa Xaa Ala Ala Asn  
20 25 30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Lys Val Ala Gln Phe Xaa Xaa Met Pro  
35 40 45

Val Gly Ala Gly Ala Pro Lys Glu Gln Glu Xaa Xaa  
50 55 60

<210> SEQ ID NO 55  
<211> 30  
<212> PRT  
<213> Caenorhabditis elegans

<400> 55

Ile Phe Asp Asn Thr Asn Asp Leu Val Ala Ser Leu Leu Gly Ile Ser  
1 5 10 15

Ser Ile Thr Val Tyr Arg Lys Arg Lys Arg Ile Gly Glu Glu  
20 25 30

<210> SEQ ID NO 56  
<211> 30  
<212> PRT  
<213> Caenorhabditis elegans

<400> 56

Tyr Leu Ser Gly Ser Thr Arg Ala Lys Leu Ala Glu Ser Leu Gly Leu  
1 5 10 15

Ser Asp Asn Gln Val Lys Val Trp Phe Gln Asn Arg Arg Thr  
20 25 30

<210> SEQ ID NO 57  
<211> 30  
<212> PRT  
<213> Caenorhabditis elegans

<400> 57

Ile Ser Arg Ser Thr Ala Lys Glu Val Ala Thr Ala Arg Gly Ile Ser  
1 5 10 15

Glu Gly Thr Val Tyr Ser Tyr Leu Ala Met Ala Val Glu Lys  
20 25 30

<210> SEQ ID NO 58  
<211> 30

Sequence 1.ST25.txt

<212> PRT

<213> Caenorhabditis elegans

<400> 58

Leu Ser Ala Tyr Thr Ile Ser Asp Leu Ala Lys His Phe Asn Val Ser  
1 5 10 15

Lys Ile Glu Ile Leu Lys Ile Asp Ile Glu Gly Ala Glu Leu  
20 25 30

<210> SEQ ID NO 59

<211> 30

<212> PRT

<213> Caenorhabditis elegans

<400> 59

Asn Glu Val Leu Asn Leu Asn Glu Val Ala Lys Glu Leu Asn Ile Ser  
1 5 10 15

Lys Arg Arg Val Tyr Asp Val Ile Asn Val Leu Glu Gly Leu  
20 25 30

Q11  
Caenor